

Title (en)
FILTER, FILTER ASSEMBLY AND FILTER SYSTEM THEREOF

Title (de)
FILTER, FILTERANORDNUNG UND FILTERSYSTEM DAFÜR

Title (fr)
FILTRE, ENSEMBLE DE FILTRE ET SON SYSTÈME DE FILTRE

Publication
EP 3415215 A1 20181219 (EN)

Application
EP 18177829 A 20180614

Priority
• TW 106120153 A 20170616
• TW 107111936 A 20180403

Abstract (en)
A water composition (9) is adapted to be received and sealed in a container (81) and includes water (91) that is capable of being utilized by living organism, silicic acid and hydrogen gas (92) dissolved in the water (91) . The silicic acid of the water composition (9) is present in an amount of not greater than a saturation concentration of the silicic acid. The water composition (9) has an oxidation reduction potential (ORP) that is lower than -400 mV. A filter (42) for producing the water composition (9) includes a carrier (421) and a silicon material (422) adsorbed on the carrier (421). A filter (4) assembly and a water purification system containing the filter (42) are also provided.

IPC 8 full level
B01D 39/20 (2006.01)

CPC (source: CN EP US)
A61K 9/0053 (2013.01 - US); **A61K 9/0095** (2013.01 - US); **A61K 9/08** (2013.01 - US); **A61K 33/00** (2013.01 - EP US); **B01D 36/00** (2013.01 - CN); **B01D 39/2055** (2013.01 - EP US); **B01D 39/2062** (2013.01 - EP US); **B01D 63/02** (2013.01 - CN EP US); **C02F 1/283** (2013.01 - US); **C02F 1/325** (2013.01 - US); **C02F 1/44** (2013.01 - US); **C02F 1/685** (2013.01 - US); **C02F 9/00** (2013.01 - CN); **B01D 2239/0407** (2013.01 - EP US); **C02F 1/001** (2013.01 - CN); **C02F 1/32** (2013.01 - CN); **C02F 1/44** (2013.01 - CN); **C02F 1/68** (2013.01 - CN); **C02F 2103/026** (2013.01 - US); **C02F 2201/007** (2013.01 - CN); **C02F 2209/10** (2013.01 - US); **C02F 2209/40** (2013.01 - US); **C02F 2301/08** (2013.01 - CN); **C02F 2303/04** (2013.01 - US)

Citation (applicant)
US 2017043305 A1 20170216 - IGARASHI JUNICHI [JP]

Citation (search report)
• [X] WO 2009085553 A1 20090709 - 3M INNOVATIVE PROPERTIES CO [US], et al
• [X] US 2010098877 A1 20100422 - COOPER CHRISTOPHER H [US], et al

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CN110127913A; CN113041702A; EP3666730A3; CN112430899A; CN114436427A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3415215 A1 20181219; **EP 3415215 B1 20191218**; CN 109126268 A 20190104; CN 109126268 B 20210702; JP 2019030871 A 20190228; JP 6917342 B2 20210811; US 2018362373 A1 20181220

DOCDB simple family (application)
EP 18177829 A 20180614; CN 201810554748 A 20180601; JP 2018113667 A 20180614; US 201816007028 A 20180613